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1600

RAW SEQUENCE LISTING

DATE: 04/18/2003

PATENT APPLICATION: US/09/881,556A

TIME: 14:25:46

Input Set : N:\Crf4\04082003\I881556.raw

Output Set: N:\CRF4\04182003\I881556A.raw

1 <110> APPLICANT: Simonsen, J. Neil
 2 <120> TITLE OF INVENTION: Cryptosporidium Parvum Antigens, Antibodies Thereto and
 Diagnostic and
 3 Therapeutic Compositions Thereof
 4 <130> FILE REFERENCE: SASK-008/01US
 5 <140> CURRENT APPLICATION NUMBER: US/09/881,556A
 6 <141> CURRENT FILING DATE: 2001-06-14
 7 <150> PRIOR APPLICATION NUMBER: US 60/212,083
 8 <151> PRIOR FILING DATE: 2000-06-15
 9 <160> NUMBER OF SEQ ID NOS: 6
 10 <170> SOFTWARE: PatentIn version 3.1
 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 1380
 14 <212> TYPE: DNA
 15 <213> ORGANISM: Cryptosporidium parvum
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 19 caataccaac cacaagatt ctggttttaa tgataaaata tttgaaatga ttacagatga 180
 20 attcaaaaaa ttgaccttta gcttgtccaa agaattaaat gattcggttt cttcagcaat 240
 21 tagcaagtat ttagaaccga tcgaacgtga tatacatcta ttaagtcgca tttgtcagga 300
 22 atcgagaagt ctgttgataa ttatgttaat atcaatgaaa tttctaaaat tgaacaaaat 360
 23 gttaaggaac ttcttacaag tacaatgag aaattaacaa gcatcgacac ttgtatttcg 420
 24 aggcttggtg gcgaatctag aagcggttcgt gaaaaagtga ctaaattaaa taaacaatgc 480
 25 gataacatta actcgaatcc aatagacaac ttactcaag tagtagcaga ttcatttggg 540
 26 acattaacta atgcagttac tcaattgcaa acaactgtta atcgtttgga attacagatc 600
 27 agtaatggaa taccactaaa aacgtcttac accagataac tcaattacaa taagagcgcc 660
 28 ccaaaacata gctttgcaaa ttgatgatgc cttaaaccac aacattacga tcggcatttc 720
 29 ggatagcaat tctggatcaa tctaactcta tctcaatcag ataagagaga aatccaagcg 780
 30 gagaatgttt tgttttgaa cttgcatata agtttgaccc atgtgttttg ttggatgatc 840
 31 cagcttccta ttagccatcc agtaatatta ggaatttcaa aaattttgag cgatactctt 900
 32 cctcatttta ttgaatcttt aaagaccagc tgtaattttt ctcaaattag ctgcatttca 960
 33 gatttaaaat tgagaatatt atggataaaa gaaaccattc actgttttga accatttact 1020
 34 gatactctta cacctagtga gtaatgcaa tactaaatga aatttcagaa gtatgaacaa 1080
 35 atgcattagc attataaatt cggttagcga tgcaagtaaa agcatgaact atattgtacc 1140
 36 tgcatgcttc acggatgggt cgatcatcag tgatattact agcatattaa ggcattattag 1200
 37 aaggacaact agaaatatta catctggaat gaaataaatt aataaggggt agaattagat 1260
 38 atttttcatg taaataaatt agcgttattg aggattattc gaaataaata atagagatat 1320
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 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 129
 43 <212> TYPE: PRT
 44 <213> ORGANISM: Cryptosporidium parvum
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46   Ala Arg Glu Leu Pro Ser Asp Arg Ser Asn Leu Leu Thr Ser Ile Phe
47   1           5           10          15
48   Thr Thr Leu Asn Met Glu Glu Lys Gln Ser Met Ser Asn Pro Gln Ser
49           20           25           30
50   Lys Asn Thr Asn Thr Ser Asn Thr Asn His Lys Asp Ser Gly Leu Asn
51           35           40           45
52   Asp Lys Ile Phe Glu Met Ile Thr Asp Glu Phe Lys Lys Leu Thr Phe
53           50           55           60
54   Ser Leu Ser Lys Glu Leu Asn Asp Ser Val Ser Ser Ala Ile Ser Lys
55           65           70           75           80
56   Tyr Leu Glu Pro Ile Glu Arg Asp Ile His Leu Leu Ser Arg Ile Cys
57           85           90           95
58   Gln Glu Ser Arg Ser Leu Leu Ile Ile Met Leu Ile Ser Met Lys Phe
59           100          105          110
60   Leu Lys Leu Lys Gln Met Leu Arg Asn Phe Leu Gln Val Gln Met Arg
61           115          120          125
62   Asn
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65 <211> LENGTH: 1323
66 <212> TYPE: DNA
67 <213> ORGANISM: Cryptosporidium parvum
68 <400> SEQUENCE: 3
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70   acgatgcaaa gtcattatit gttttaaatc cagatggatc cggaattttg aaaaacattt      120
71   ctactaaatt cgaaattaaa tttgagcttg gcttgataaa tggtagtttg ctcggagggtg      180
72   atatttttat ccttgatagg aaacacgctc ttgaagctgt aagttattca atcgcttggtg      240
73   ttttctatac aaaaacatgt tttgaaaaga atgaagcaca ttgtcttaaa ccctttaatc      300
74   gcgctgagaa taaaatgact tttggttctg agaaagactt agcgacaact ctccaatctt      360
75   ctaattctga atattatctt ttccttacat ggaataactg cattcttgga tatattccaa      420
76   ttaacacaaa taaaatcaac aaaatttctc ttgaaagtgc cggagaaaac tcaatctcca      480
77   caattggata ttggagtatt atcgatggat tttcttcttc tttaattaaa catgcgccta      540
78   taaaagaaaa tggccacttg aataatcaag aatcaaaata ttcaaatga aataatgaag      600
79   ccactaaact caacaaatcc agaatcaggt gggaataact taactcagaa ccaaaacaca      660
80   aagcctcatc cagttgttag accgcacctc acagaaaagc cctcaaatgg tgaacatcaa      720
81   gaatctgggt cagagcaagc ccctattacc tcaccagaaa acgaatcaag ttcaaatcat      780
82   ccttctgtga cagttccaga tactggatca gttcaaactc ccttctgtta ctattccaga      840
83   gactggatca gactcagatc acgcgccttg tgacaattcc agagactgga tcagttcaaa      900
84   tcatcttctg ctactatacc agaaacagga tccagctcag atcacactct gctacttctc      960
85   cagaagaagg attggactca gaacgttacc aatcacttct acagaacaaa ctcaaagcca      1020
86   gctacatatc ctaaccaaga aaatgaaaat cataataatc aggaaggtaa ttcgagtttt      1080
87   aatacactaa atcttccaaa tcaacccaat ctttcacgca agctggcaga tgtggaaagt      1140
88   tatggggaaa aggataaaaat ggttgatggt gagcaagtaa tcactaaaaa tgacattatt      1200
89   gaagatactt cgaaagaaat tagaaacaaa atgtaaagta tctgcattga taaatatggc      1260
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93 <210> SEQ ID NO: 4
94 <211> LENGTH: 193
95 <212> TYPE: PRT
96 <213> ORGANISM: Cryptosporidium parvum

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97 <400> SEQUENCE: 4

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100   Ser Asn Asp Ala Lys Ser Leu Phe Val Leu Asn Pro Asp Gly Ser Gly
101           20           25           30
102   Ile Leu Lys Asn Ile Ser Thr Lys Phe Glu Ile Lys Phe Glu Leu Gly
103           35           40           45
104   Leu Ile Asn Gly Ser Trp Leu Gly Gly Asp Ile Phe Ile Leu Asp Arg
105           50           55           60
106   Lys His Ala Leu Glu Ala Val Ser Tyr Ser Ile Ala Cys Val Phe Tyr
107           65           70           75           80
108   Thr Lys Thr Cys Phe Glu Lys Asn Glu Ala His Cys Leu Lys Pro Phe
109           85           90           95
110   Asn Arg Ala Glu Asn Lys Met Thr Phe Gly Ser Glu Lys Asp Leu Ala
111           100          105          110
112   Thr Thr Leu Gln Ser Ser Asn Ser Glu Tyr Tyr Leu Phe Leu Thr Trp
113           115          120          125
114   Asn Asn Cys Ile Leu Gly Tyr Ile Pro Ile Asn Thr Asn Lys Ile Asn
115           130          135          140
116   Lys Ile Ser Leu Glu Ser Ser Gly Glu Asn Ser Ile Ser Thr Ile Gly
117           145          150          155          160
118   Tyr Trp Ser Ile Ile Asp Gly Phe Ser Ser Ser Leu Ile Lys His Ala
119           165          170          175
120   Pro Ile Lys Glu Asn Gly His Leu Asn Asn Gln Glu Ser Lys Tyr Ser
121           180          185          190
122   Lys

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124 <210> SEQ ID NO: 5

125 <211> LENGTH: 29

126 <212> TYPE: DNA

127 <213> ORGANISM: Artificial

128 <220> FEATURE:

129 <223> OTHER INFORMATION: primer

130 <400> SEQUENCE: 5

131 gtcatatggc acgagaatta ccatctgat

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133 <210> SEQ ID NO: 6

134 <211> LENGTH: 29

135 <212> TYPE: DNA

136 <213> ORGANISM: Artificial

137 <220> FEATURE:

138 <223> OTHER INFORMATION: primer

139 <400> SEQUENCE: 6

140 gacatatgtt aatttctcat ttgtacttg

29

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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6

VERIFICATION SUMMARY

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